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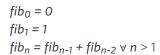


Problem Submissions Leaderboard Discussions Editorial

You are given an integer, *N*. Write a program to determine if *N* is an element of the *Fibonacci Sequence*.

The first few elements of fibonacci sequence are 0,1,1,2,3,5,8,13.... A fibonacci sequence is one where every element is a sum of the previous two elements in the sequence. The first two elements are 0 and 1.

Formally:



### **Input Format**

The first line contains *T*, number of test cases. *T* lines follows. Each line contains an integer *N*.

## **Output Format**

Display **IsFibo** if **N** is a fibonacci number and **IsNotFibo** if it is not a fibonacci number. The output for each test case should be displayed on a new line.

#### **Constraints**

 $1 \le T \le 10^5$  $1 \le N \le 10^{10}$ 

### **Sample Input**

3 5 7 8

# **Sample Output**

IsFibo IsNotFibo IsFibo

#### **Explanation**

5 is a Fibonacci number given by  $fib_5 = 3 + 2$ 

7 is not a Fibonacci number

8 is a Fibonacci number given by  $fib_6 = 5 + 3$ 

**TimeLimit** Time limit for this challenge is given here

Suggest Edits



6252 hackers have submitted co









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